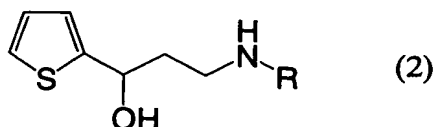


CLAIMS

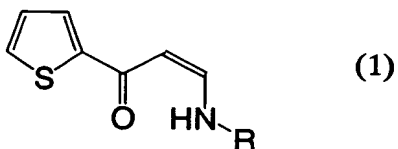
1. A process for producing an *N*-monoalkyl-3-hydroxy-3-(2-thienyl)propanamine represented by General Formula (2):

5



wherein R is C₁₋₄ alkyl, comprising the step of reducing a (*Z*)-*N*-monoalkyl-3-oxo-3-(2-thienyl)propenamine represented by General Formula (1):

10



wherein R is as defined above.

15

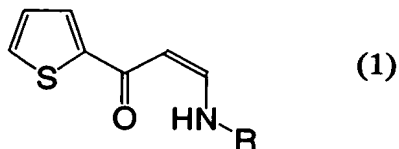
2. The process according to Claim 1, wherein the (*Z*)-*N*-monoalkyl-3-oxo-3-(2-thienyl)propenamine is reduced using sodium borohydride or sodium cyanoborohydride.

20

3. The process according to Claim 1, wherein the (*Z*)-*N*-monoalkyl-3-oxo-3-(2-thienyl)propenamine is reduced in the presence of a proton-donating compound.

4. A (*Z*)-*N*-monoalkyl-3-oxo-3-(2-thienyl)propenamine represented by General Formula (1):

25



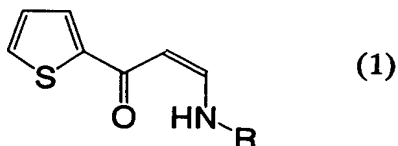
wherein R is C₁₋₄ alkyl.

5

5. The (Z)-N-monoalkyl-3-oxo-3-(2-thienyl)propenamine according to Claim 4, wherein R in General Formula (1) is methyl.

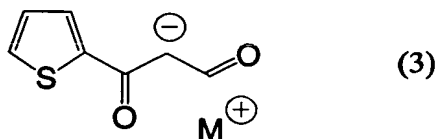
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6. A process for producing a (Z)-N-monoalkyl-3-oxo-3-(2-thienyl)propenamine represented by General Formula (1):



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wherein R is C₁₋₄ alkyl, comprising the step of reacting an alkali metal salt of β-oxo-β-(2-thienyl)propanal represented by General Formula (3):



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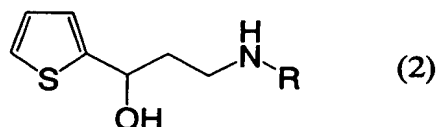
wherein M is an alkali metal atom, with a monoalkylamine compound represented by General Formula (4):



25 wherein R is as defined above.

7. A process for producing an *N*-monoalkyl-3-hydroxy-3-(2-thienyl)propanamine represented by General Formula (2):

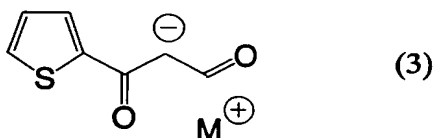
5



wherein R is C₁₋₄ alkyl, comprising the steps of:

reacting an alkali metal salt of β-oxo-β-(2-thienyl)propanal represented by General Formula (3):

10



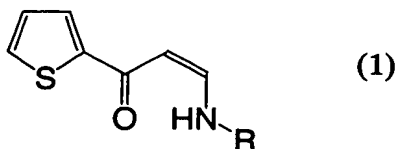
wherein M is an alkali metal atom, with a monoalkylamine compound represented by General Formula (4):

15



wherein R is as defined above, to give a (*Z*)-*N*-monoalkyl-3-oxo-3-(2-thienyl)propenamine represented by General Formula (1):

20



wherein R is as defined above; and

reducing the (*Z*)-*N*-monoalkyl-3-oxo-3-(2-thienyl)propenamine.

25

8. The process according to Claim 7, wherein the (Z)-N-monoalkyl-3-oxo-3-(2-thienyl)propenamine is reduced using sodium borohydride or sodium cyanoborohydride.

5

9. The process according to Claim 7, wherein the (Z)-N-monoalkyl-3-oxo-3-(2-thienyl)propenamine is reduced in the presence of a proton-donating compound.